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(54) LITHIUM STORAGE CELL HAVING CARBON ANODE

(57)Abstract:

PURPOSE: To provide a storage cell having high mass and capacitive energy and which is possible to be kept safe throughout the use time by containing a specified compound to an electrolytic solution in a lithium storage battery comprising a cathode and respectively specified anode, and electrolytic solution.

CONSTITUTION: This lithium storage cell comprises a cathode, an anode containing a carbon material with >0.8 crystallinity and an electrolytic solution containing a mixture of two or more non-protonic organic solvents containing a first solvent (for example ethylene carbonate) having a high dielectric constant and a second solvent (for example diethyl carbonate) having a low viscosity together with a Li salt (for example lithium trifluoromethanesulfonimide). In this storage cell, a soluble compound (for example vinylene carbonate) which is the same type as the solvents, contains one or more unsaturated bonds and is reducible at the anode at a potential higher than that of Li by 1V or more to form a passivation layer is further contained to the electrolytic solution.

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